

Length-weight relationship of *Leuciscus aspius*
 from Slovenia, sampled from 23.11.2011 to 06.05.2024
 (n = 119, length range from 10.50 cm to 74.50 cm,
 specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 06.11.2024
- Country: SVN
- Species: *Leuciscus aspius*
- Length type: TL (biometry_id = 76)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 23.11.2011
- Sampled to: 06.05.2024
- n: 119
- L min [cm]: 10.50
- L max [cm]: 74.50
- W min [g]: 10.00
- W max [g]: 5650.00
- Data transformation: natural logarithm
- a: 0.0056299
- b: 3.1163256

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.5786 -0.0668 -0.0021  0.0658  0.3852
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.1797     0.0639    -81    <2e-16 ***
## ln_l_x         3.1163     0.0187    167    <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.123 on 117 degrees of freedom
## Multiple R-squared:  0.996, Adjusted R-squared:  0.996
## F-statistic: 2.78e+04 on 1 and 117 DF, p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value      Pr(>F)
## ln_l_x         1 420.669210 420.66921004 27766.11 6.371374e-141
## Residuals 117   1.772604    0.01515046      NA      NA
```

Visualization

